

Message Text

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DEPT PASS TO EPA FOR CARAKER

E.O. 11652:N/A

TAGS: SENV, JA, OTRA, JA, US (FUWA, K.)

SUBJECT: VISIT OF JAPANESE ENVIRONMENTAL SURVEY TEAM

REF: STATE 247360

1. EMBOFFS CONTACTED DR. FUWA'S OFFICE AND OBTAINED FROM IIP LIST OF FOUR MEN MAKING TRIP. BESIDES FUWA, THEY ARE ATSUSHI NISHIO, MANAGING DIRECTOR, JAPAN INSPECTION CO., MASARU KUSHIRO, DIRECTOR, ENVIRONMENTAL RESEARCH CENTER, INC., AND SHIGETAKA KISHIMOTO, CHEMIST, NEW JAPAN SURVEYORS AND SWORN MEASURES ASSOCIATION.

2. TEXTS OF TWO QUESTIONNAIRES GIVEN EMBASSY NOVEMBER 21 FOLLOW:
BEGIN TEXT: QUESTIONNAIRES ON ENVIRONMENTAL FACTORS FOR ANALYSES. A. GENERAL REGULATIONS:

- REGARDING THE REGULATORY STANDARDS IN THE USA ON THE MATTERS RELATED TO THE POLLUTION. (QUALITY OF WATER, AIR, NOISE, VIBRATION, ODOR ETC.) (STANDARD VALUES FOR EACH CITY AND TOWN AND A UNIFIED STANDARD VALUE)

1. WHAT IS THE DIFFERENCE OF STANDARDS BETWEEN THOSE OF THE FEDERATION AND THE STATES?

2. DOES THE OBLIGATION OF THE PERIODICAL MEASUREMENT EXIST
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OR NOT TO BE CARRIED AT THE GENERATION SPOT OF THE POLLUTION

ACCORDING TO THE LAW?

3. BY WHAT ORGANIZATION IS THE ANALYTICAL WORK CARRIED? HOW MANY OF THEM ARE THERE, INCLUDING THE PRIVATE INSTITUTIONS?

4. WHAT ARE THE METHODS FOR THE TREATMENT AND THE MAINTENANCE OF THE RESIDUAL SOLUTION?

5. WHAT IS THE ANALYTICAL METHOD APPLIED TO THE ISOTOPES OR RADIATED SUBSTANCES? MOSTLY WH SAMPLES ARE ANALYZED?

B. - EQUIPMENTS:

1. RE USE OF FLUORESCENT X-RAY:

A. WHAT IS THE UTILIZATION STATUS IN POLLUTION ANALYSES?

B. WHAT IS THE LATEST ANALYTICAL METHOD?

C. IS IT POSSIBLE TO DEVELOP THE EQUIPMENT APPLICABLE TO THE STATES OF THE SOLUTION?

2. WHAT ARE THE PREPARATORY METHOD OF THE STANDARD SAMPLES AND ACTUAL EXAMPLES OBTAINED?

3. RE ION ELECTRODE:

A. WHAT IS THE MOST FREQUENTLY USED ELECTRODE AT PRESENT?

B. DOES THE CHLORINE ION ELECTRODE EXIST WHOSE SENSITIVITY IS BETTER THAN 0.1 PPM?

4. RE AUTOMATIC ANALYZER:

A. WHAT IS THE ANALYTICAL METHOD BY WHICH KMNO₄-COD ANALYSIS CAN BE DONE WITHIN 30 MINUTES?

B. WHAT IS THE EQUIPMENT COPING WITH THE CO-EXISTANCE OF SALINE WATER?

5. DOES THE ANALYTICAL EQUIPMENT FOR ARSENIC EXIST WITHOUT HAVING AN INTERFERENCE FROM OTHER OBSTACLES?

6. IS THERE ANY ANALYTICAL INSTRUMENT BUILT BY OTHER THEORY THAN THE RADIATED ANALYTICAL METHOD APPLICABLE TO THE ANALYSIS OF SULFUR IN THE HEAVY OIL?

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C. - RE METHOD:

1. IS THERE POSSIBILITY OF DESIGN OF THE INSTRUMENT ACCORDING TO THE JIS? (JAPAN INDUSTRIAL STANDARD)

2. WHAT IS THE GOOD PRELIMINARY TREATMENT FOR THE INSTRUMENTAL ANALYSIS?

3. WHAT IS THE GOOD CONVENIENT ANALYTICAL INSTRUMENT FOR BOD AND COD ACCORDING TO THE SAMPLING METHOD?

4. ARE THERE EASY AND QUICK ANALYTICAL METHODS AND THE INSTRUMENTS FOR PCB AND ABS? END TEXT.

3. SECOND QUESTIONNAIRE, WRITTEN BY DR. NISHIO, SUMMARIZED BELOW:

A) AUTOMATIC ANALYZING INSTRUMENTS: EIGHT QUESTIONS ON COD DETERMINATION BY KMNO FOUR, EFFECT OF MOISTURE ON INFRARED ANALYSER IN TOC, EFFECTS OF OIL CONTENT ON TURBIDITY MEASUREMENT, DIPHENYLCARBAZIDE METHOD OF CR, ION-ELECTRODE METHOD OF F OR CN, CORRESPONDENCE BETWEEN CCL FOUR-ND INFRARED MEASURE OF OIL CONTENT AND N-HEXANE EXTRACT METHOD, DETERMINATION OF HEAVY METALS, AND LOWEST LIMIT OF QUANTITATIVE ANALYSIS.

B) AUTOMATIC ANALYSIS PROCEDURES

ARE THERE ANY SUITABLE PROCEDURES FOR US TO BE ABLE TO USE THE INSTRUMENTAL AUTOMATIC ANALYSERS IN THE LABORATORY WHEN A LOT OF TEST SAMPLES, THE CONCENTRATION OF WHICH IS UNKNOWN AND MAY BE VARIABLE, ARE PUT INTO THEM BY TURNS CONSECUTIVELY? FOR INSTANCE, IN THE CASE OF PHENOL IN WASTE WATER, WHEN ITS CONCENTRATION MAY BE INDICATED UNDER 0.5 MG, THE EXTRACTION TREATMENT BY CH₃Cl IS TO BE DONE. IN CASE OF PO₄ IN JIS, THERE IS A SLIGHT DIFFERENCE - REAGENT VOLUME IN ML AND N-BUTYLALCOHOL EXTRACTION TREATMENT - IN THE ANALYSIS PROCEDURES AMONG TEST SAMPLES OVER 3 PPM, 0.5 TO 3 PPM, AND 0.5 TO 0.02 PPM WHICH ARE SUPPOSED TO BE OBTAINED. AND IN THE CASE OF F, WE ALSO MAKE DETERMINATION WITH A PHOTOMETER ADDING THE LANTHAN-ALIZARINE COMPLEXON TO TEST WATER SAMPLE WHERE MORE THAN 0.05 MG CONCENTRATION OF F CONTENT IS INDICATED AFTER THE DISTILLATION OF THESE SAMPLES INCLUDING MORE THAN 0.1 MG CONCENTRATION ADDING

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SUITABLE VARIOUS REAGENTS.

PARTS C THROUGH G FOLLOW, COVERING AUTOMATIC ANALYSERS OF TECHNICON CORP., PRETREATMENT OF WASTE WATER SAMPLES FOR AUTOMATIC EQUIPMENT, RADIOACTIVITY, SAMPLING METHODS FOR DUST IN STACK GAS AND BOD AND COD IN WASTE WATER, AND GENERAL. LAST SECTION ASKS ABOUT NUMBER OF GOVERNMENTAL, PUBLIC, AND PRIVATE GROUPS CONCERNED WITH POLLUTION ANALYSIS AND TYPICAL FACILITIES AVAILABLE TO PRIVATE ENTERPRISES.

4. EMBASSY RECOMMENDS THAT GROUP BE GIVEN BRIEFING IN WASHINGTON, AND ELSEWHERE AS LOCATION OF EPA EXPERTS AND GROUP'S INTEREST MAY WARRANT. GROUP WILL LEAVE FOR HONOLULU ON NOVEMBER 24. EMBOFF GAVE GROUP NAME AND TELEPHONE NUMBER OF CARAKER AND SUGGESTED THEY CALL FROM HAWAII ON NOVEMBER 25 OR

26 TO SEE WHETHER APPOINTMENTS AT CINCINNATI AND RESEARCH TRIANGLE
PARK HAD BEEN ARRANGED.
HODGSON

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